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(54) RARE-EARTH/IRON BASED MAGNET AND MANUFACTURE THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain excellent magnetic characteristics having high orientation property by specifying the dimensions and the mixing ratio of isotropic magnet powder.

SOLUTION: As an Nd-Fe-B based magnet powder, the anisotropic powder made by magnequench International(MQ1) and the isotropic powder of a super-rapidly cooling thin piece are used. The isotropic powder among them is crushed so as to obtain particles less than 100 μm. The lower punch made of graphite is inserted in the space of an over type on the inner-diameter side. The lower spacer made of cemented material is provided thereon. In the place, the mixed powder, wherein the unclassified unisotropic powder of 95-80 wt.% or more and isotropic less than 100 μm of 5-20 wt.% or less are mixed at the ratio equal to or less than 5-20 wt.%, is inputted. Then, the upper spacer made of the cemented material thereon and the upper punch made of graphite is inserted. At this time, mold releasing agent is thinly applied on the surface in contact with the mixed powder of the spacer. Then, the magnet is molded by using a direction current conducting molding method.

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